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Weekly morbidity and mortality table, cities of the United States.

[For smallpox see special table.]

| Cities. | Week ended— | Population, United States census, 1900. | Total deaths from all causes. | Tuberculosis. | | Enteric fever. | | Scarlet fever. | | Diphtheria. | | Measles. | | Whooping cough. | |
|---------------------|-------------|---|-------------------------------|---------------|---------|----------------|---------|----------------|---------|-------------|---------|----------|---------|-----------------|---------|
| | | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Altoona, Pa. | July 11 | 38,973 | 11 | .... | 1 | 1 | .... | 1 | .... | 1 | .... | .... | .... | .... | .... |
| Ann Arbor, Mich. | July 4 | 14,509 | 4 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Do. | July 11 | 14,509 | 4 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Auburn, N. Y. | July 4 | 30,345 | 5 | 1 | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | 5 | .... |
| Do. | July 11 | 30,345 | 7 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Augusta, Ga. | July 14 | 39,441 | 12 | 2 | 1 | .... | .... | 1 | .... | .... | .... | 1 | .... | 1 | .... |
| Baltimore, Md. | July 11 | 508,957 | 271 | 8 | 28 | 20 | 8 | 15 | 3 | 10 | 1 | 6 | .... | 1 | 1 |
| Bayonne, N. J. | do | 32,722 | .... | .... | .... | 1 | .... | 4 | .... | 4 | .... | 12 | .... | .... | .... |
| Beaver Falls, Pa. | do | 10,054 | 0 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 | .... |
| Berkeley, Cal. | July 4 | 13,214 | 6 | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Biddeford, Me. | July 11 | 16,145 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Binghamton, N. Y. | do | 38,647 | 10 | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Boston, Mass. | do | 560,892 | 209 | 45 | 26 | 14 | .... | 30 | 1 | 42 | 6 | 101 | 7 | 8 | 2 |
| Bradford, Pa. | do | 15,029 | 3 | 1 | .... | 1 | .... | .... | .... | 2 | .... | 24 | .... | .... | .... |
| Brockton, Mass. | do | 40,063 | 5 | 5 | 1 | 1 | .... | .... | .... | 2 | .... | .... | .... | .... | .... |
| Butte, Mont. | June 30 | 30,470 | 13 | .... | .... | .... | .... | .... | 1 | 1 | 1 | .... | .... | .... | .... |
| Do. | July 7 | 30,470 | 13 | 3 | 2 | .... | .... | 5 | 1 | .... | .... | 3 | .... | .... | 2 |
| Cambridge, Mass. | July 11 | 91,886 | 19 | 6 | 1 | 2 | 1 | 4 | 1 | 8 | 1 | 3 | .... | 2 | 2 |
| Camden, N. J. | do | 75,935 | 25 | 4 | 1 | .... | .... | .... | .... | 3 | 1 | 2 | .... | .... | .... |
| Camden, S. C. | do | 2,441 | 1 | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Carbondale, Pa. | do | 13,536 | 3 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Charlotte, N. C. | do | 18,091 | 10 | .... | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Chicago, Ill. | do | 1,698,575 | 510 | 26 | 57 | 6 | 1 | 45 | 7 | 62 | 6 | 75 | 2 | 8 | 5 |
| Chicopee, Mass. | do | 19,167 | 8 | .... | 1 | .... | .... | .... | .... | .... | .... | 1 | .... | .... | .... |
| Cincinnati, Ohio. | July 10 | 325,902 | 102 | 10 | 10 | 5 | 1 | 2 | .... | 8 | .... | 6 | .... | 3 | 1 |
| Cleveland, Ohio. | do | 381,768 | 122 | 40 | 13 | 7 | 1 | 9 | .... | 15 | 1 | 36 | .... | 20 | .... |
| Clinton, Mass. | July 11 | 13,667 | 2 | .... | .... | .... | .... | .... | .... | .... | .... | 3 | .... | .... | .... |
| Columbus, Ga. | do | 17,614 | 3 | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Covington, Ky. | do | 42,938 | 23 | .... | .... | .... | .... | .... | .... | .... | .... | 2 | .... | .... | .... |
| Danville, Ill. | do | 16,354 | 10 | .... | 2 | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... |
| Dayton, Ohio. | do | 85,332 | 34 | .... | 7 | .... | .... | 2 | .... | .... | .... | .... | .... | 1 | .... |
| Detroit, Mich. | do | 285,704 | 117 | .... | .... | .... | .... | .... | .... | 3 | 1 | .... | .... | .... | .... |
| Dunkirk, N. Y. | do | 11,616 | 3 | .... | .... | .... | .... | 2 | .... | .... | .... | .... | .... | 5 | .... |
| Elkhart, Ind. | do | 15,184 | 6 | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... |
| Elmira, N. Y. | do | 35,672 | 8 | .... | 2 | 11 | 1 | .... | .... | 1 | 1 | .... | .... | .... | .... |
| Erie, Pa. | July 9 | 52,733 | 18 | .... | .... | 2 | 2 | .... | .... | .... | .... | .... | .... | .... | .... |
| Do. | July 16 | 52,733 | 15 | 4 | 2 | 4 | .... | .... | .... | .... | .... | .... | .... | 7 | 2 |
| Everett, Mass. | July 11 | 24,336 | 4 | 2 | .... | .... | .... | .... | .... | 1 | .... | 6 | .... | .... | .... |
| Fall River, Mass. | do | 104,863 | 61 | 1 | 1 | 1 | .... | .... | .... | 1 | .... | 4 | 1 | .... | .... |
| Findlay, Ohio. | do | 17,613 | 4 | .... | 2 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Fort Wayne, Ind. | do | 50,947 | 20 | .... | 2 | .... | .... | 4 | .... | 1 | .... | .... | .... | .... | .... |
| Galesburg, Ill. | July 4 | 18,607 | 3 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Do. | July 11 | 18,607 | 2 | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... |
| Galveston, Tex. | July 10 | 37,789 | 15 | 1 | 1 | 4 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Gloucester, Mass. | July 4 | 26,121 | 4 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Do. | July 11 | 26,121 | 3 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Grand Rapids, Mich. | do | 87,565 | 25 | 6 | 3 | 3 | 1 | 3 | .... | 1 | .... | 14 | .... | 6 | .... |
| Greensboro, N. C. | do | 10,035 | 6 | .... | 3 | 2 | 1 | 2 | .... | .... | .... | .... | .... | .... | .... |
| Greenville, S. C. | do | 11,860 | 3 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 6 | .... |
| Harrison, N. J. | do | 10,596 | 8 | 1 | 1 | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... |
| Hartford, Conn. | July 5 | 79,850 | 26 | 3 | 1 | 1 | 1 | 7 | .... | 5 | .... | .... | .... | .... | .... |
| Do. | July 12 | 79,850 | 24 | 2 | 1 | 1 | .... | .... | .... | 3 | 1 | .... | .... | .... | .... |
| Haverhill, Mass. | July 11 | 37,175 | 0 | 1 | .... | 2 | .... | .... | .... | 1 | .... | .... | .... | .... | .... |
| Hoboken, N. J. | do | 59,864 | .... | .... | .... | .... | .... | 3 | .... | 1 | 1 | .... | .... | .... | .... |
| Hyde Park, Mass. | do | 13,244 | 4 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Indianapolis, Ind. | July 12 | 169,164 | 64 | 3 | 6 | 3 | 1 | .... | .... | 1 | .... | 3 | .... | .... | 1 |
| Jacksonville, Fla. | July 11 | 28,429 | 21 | .... | 2 | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... |
| Johnstown, Pa. | do | 35,936 | 17 | .... | 2 | 5 | .... | 2 | .... | .... | .... | .... | .... | 9 | 1 |
| Kalamazoo, Mich. | do | 24,404 | 11 | .... | .... | 2 | 1 | .... | .... | .... | .... | .... | .... | 4 | .... |
| Kansas City, Kans. | do | 51,418 | 31 | 1 | 3 | 2 | .... | 1 | .... | .... | .... | .... | .... | 4 | 1 |
| Kansas City, Mo. | do | 163,752 | 50 | .... | 2 | .... | 1 | 1 | .... | 1 | 1 | .... | .... | 8 | .... |
| Kearny, N. J. | do | 10,896 | 9 | 2 | 2 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Kingston, N. Y. | do | 24,535 | 8 | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Knoxville, Tenn. | do | 32,637 | .... | .... | 5 | .... | .... | .... | .... | .... | .... | 1 | .... | .... | .... |
| La Crosse, Wis. | do | 28,895 | 3 | 14 | .... | .... | .... | .... | .... | 2 | .... | .... | .... | .... | .... |
| La Fayette, Ind. | July 13 | 18,116 | 9 | 2 | 2 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lancaster, Pa. | July 11 | 41,459 | 18 | .... | .... | 1 | .... | 1 | .... | 1 | .... | .... | .... | 8 | .... |
| Lawrence, Mass. | do | 62,559 | 24 | 2 | 1 | 1 | 1 | .... | .... | 1 | 1 | 3 | .... | .... | 1 |
| Lexington, Ky. | do | 26,369 | 12 | .... | 1 | .... | .... | .... | .... | 2 | 1 | 2 | .... | .... | .... |
| Los Angeles, Cal. | July 4 | 102,479 | 72 | 8 | 10 | 5 | .... | 3 | .... | 11 | .... | 39 | 1 | .... | .... |
| Lowell, Mass. | July 11 | 94,969 | 45 | 3 | 3 | 3 | .... | 2 | .... | .... | .... | 12 | .... | .... | .... |
| Lynn, Mass. | do | 68,513 | 18 | .... | 1 | .... | .... | .... | .... | 10 | 1 | 4 | .... | .... | .... |
| Malden, Mass. | do | 33,664 | 8 | .... | .... | 1 | .... | 2 | .... | 1 | .... | 6 | .... | .... | .... |

Weekly morbidity and mortality table, cities of the United States—Continued.

| Cities. | Week ended— | Popula- tion, United States census, 1900. | Total deaths from all causes. | Tuber- culosis. | | Enteric fever. | | Scarlet fever. | | Diph- theria. | | Measles. | | Whoop- ing cough. | |
|------------------------|-------------|--|---|--------------------|---------|-------------------|---------|-------------------|---------|------------------|---------|----------|---------|-------------------------|---------|
| | | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Warren, Pa. | July 13 | 8,043 | 0 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Washington, D. C. | July 4 | 278,718 | 136 | ..... | 13 | 26 | 5 | 1 | ..... | ..... | ..... | 20 | ..... | 11 | 5 |
| Do Do | July 11 | 278,718 | 140 | ..... | 11 | 11 | 1 | 3 | ..... | 1 | ..... | 18 | ..... | 10 | ..... |
| Wilkesbarre, Pa. | July 10 | 51,721 | 17 | ..... | ..... | 6 | 1 | 1 | ..... | 1 | ..... | 5 | ..... | ..... | ..... |
| Wilkesburg, Pa. | June 14 | 11,886 | 5 | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | 17 | ..... | 1 | ..... |
| Do Do | July 12 | 11,886 | 7 | 1 | 1 | ..... | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Williamsport, Pa. | July 11 | 28,757 | 6 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 1 | ..... | ..... | ..... |
| Wilmington, Del. |do .. | 76,508 | 32 | ..... | 4 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... |
| Winona, Minn. |do .. | 19,714 | 8 | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Woburn, Mass. |do .. | 14,254 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Worcester, Mass. |do .. | 118,421 | 38 | ..... | ..... | 1 | ..... | 2 | ..... | 7 | ..... | 9 | ..... | ..... | ..... |

a Intervening weeks previously reported.

Special report.

PRELIMINARY NOTE OF A NEW PATHOGENIC HÆMOGREGARINE, HEPATOZOÏN PERNICIOSUM, FOUND IN WHITE RATS IN WASHINGTON, D. C.

[By Assistant Surgeon W. W. MILLER.]

In March of this year an epizootic was observed among the stock of white rats kept for laboratory purposes. About 25 per cent of the animals died. The disease was marked by an apathetic condition and gradually increasing anemia. Death ensued from 4 days to 2 weeks after the onset of symptoms. Post-mortem examination showed the lesions to be great enlargement of the spleen and fatty degeneration of the liver. An examination of the blood showed a marked increase in the number of large mononuclear lymphocytes (in some rats as many as 110,000 per cm.). In many of the large lymphocytes were embedded oval, encapsulated parasites, measuring on an average 6 by 12 microns, somewhat resembling *Leucocytozoön canis* found in dogs in India. Multiplication in the rat was found to take place in the liver cells. The schizonts, encapsulated when mature, rupture and set free from 15 to 20 merozoites into the liver capillaries. The merozoites, at first free-moving vermicules, are taken in by the large lymphocytes and become the encapsulated parasites. They undergo no further change in the body of the rat, but continue to circulate in the blood stream.

The intermediate host was found to be a mite, *Lelaps echidninus* Berlese, which lives upon and sucks the blood of the rat. In the stomach of the mite the encapsulated parasites become free and conjugation between two vermicules takes place. A zygote is formed which becomes an ookinet, penetrates the stomach wall of the mite, and enters the body tissues. It becomes spheroidal in form and encapsulated, and increases greatly in size (to 200 or 300 microns in diameter). Buds are formed upon the surface of the spherical mass or sporont, which is loosely contained in the enveloping oöcyst. They increase in size and later break off as oval bodies (sporoblasts), become encapsulated, and divide into from 15 to 20 sporozoites. The sporo-